（PIXEL　TRIBAR）

User's Manual

Professional Lighting Control Equipment

Catalogue

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Read carefully before usage

Part One: General Statement

➢ Product Instruction

Thank you for purchasing our Vpower Pixel Tribar，For your safety and better use of the product, please read the user’ s manual carefully and operate strictly according to regulations, so as to avoid danger or damage caused by misuse.

➢ Product Introduction

Vpower Pixel Tribar has sleek lines that looks beautiful, the light source are high power tri-color LED (3*1W), this product has long lifespan high brightness and colorful effect, **R, G, B can be independently controlled (dimmer), variety of gray changes, with more than 20 kinds of program changes, optional internal or external switching power supply. This product has advantages such as light weight, low power consumption, stable performance , long service life; international standard DMX512 signal control used.**

➢ Packing List

- Vpower Pixel Tribar One
- Operation Instruction
- Warranty card

Part Two: Safety Instruction

➢ Safety Guide

! Before maintenance, please consult qualified service personnel;

! Installation and maintenance of the entire light, make sure the power is disconnected;

! Do not look at the light source directly, in case damage the eyes;

➢ Safety Instruction

● Special attention paid to supply voltage and lamp voltage are the same to ensure the using voltage falls into the technical parameters identification range.

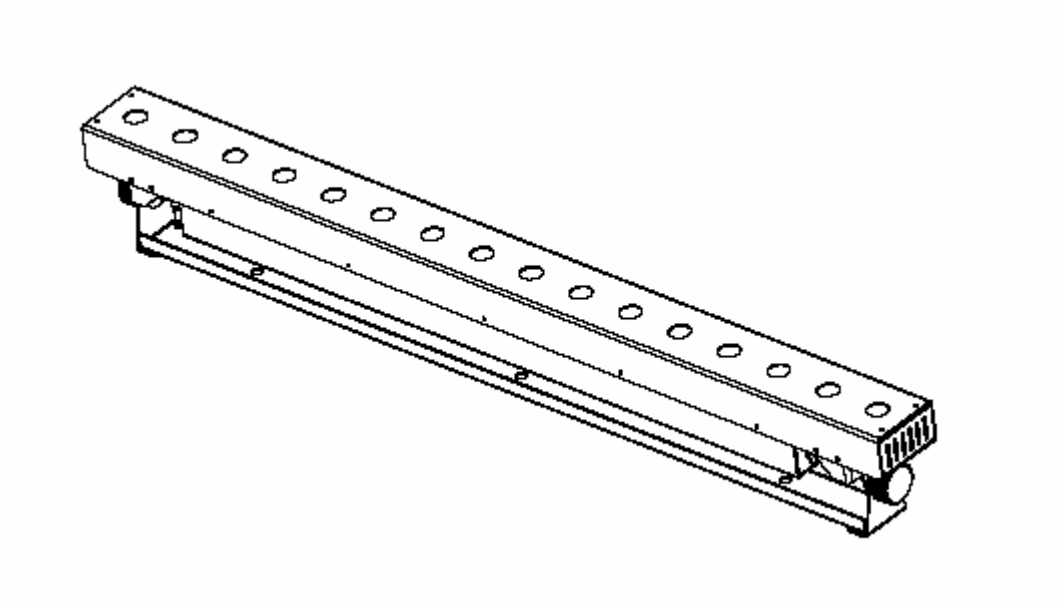
●Before installing, please check the light carefully and safely. Installation can be done after the recognition that the fasteners, mechanical structures are not loose and damaged during transportation;

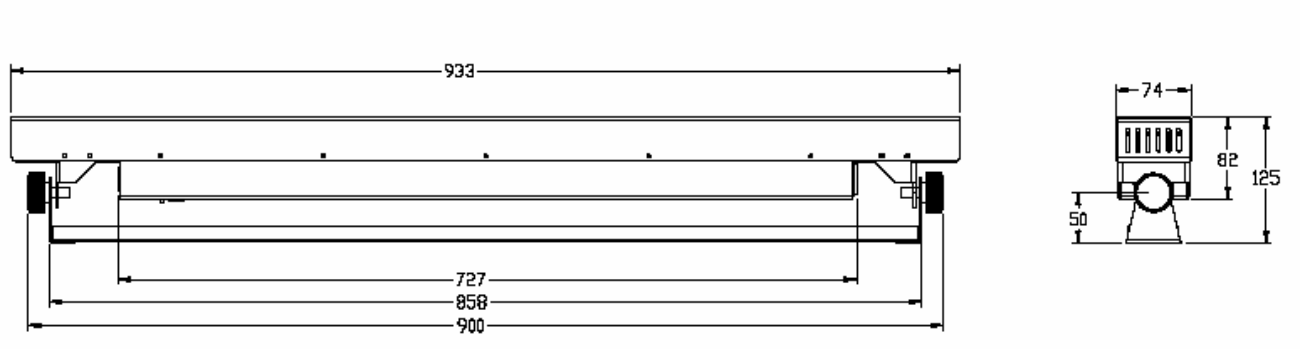
●This product is suitable for indoor, environmental operating temperature must be lower than 40℃;

● The lights should be installed in ventilated area, make sure there are no extremely flammable and explosive items(decorations) within a distance of at least 0.5 m;

● Connect the yellow/green lines safely to the ground; do not use this product jittery.

Part Three: Light Body Size Chart





Part Four: Main Functions

- Selection of high quality LED light source, less power consumption, high brightness, stable performance, long lifespan;
- Each color LED with 256 grades dimming effects. RGB can be mixed up more than 16.7 million kinds of colors.
- Linear dimming from 0-100%, strobe mode, gradual change, jump, water and other effects.
- DMX512 signal control, 4 buttons address code setting led display, 16 full-color LED.
- Auto run, sound activated, master slave, and multi-machine interconnected control
- With Switch power supply to protect LED working well
- IP20
- **DMX control channel optional**

Part Five: DMX Control

DMX Mode 1 (3 Channels)

DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255

DMX Mode 2 (24 Channels)

DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255
" "	" "	" "	" "
22	LED Color	Red LED intensity	0-255
23	LED Color	Green LED Intensity	0-255
24	LED Color	Blue LED Intensity	0-255

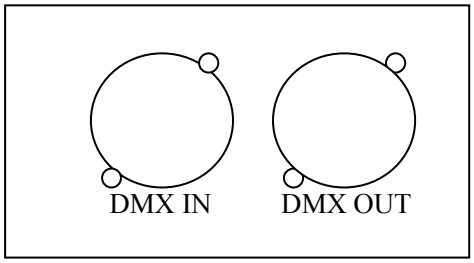
DMX Mode 3 (48 Channels)

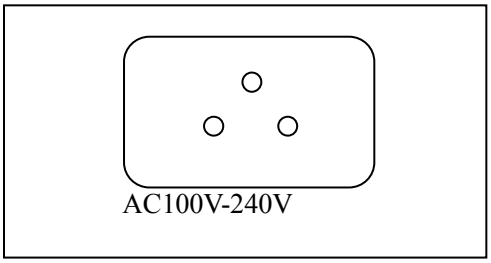
DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255
" "	" "	" "	" "
46	LED Color	Red LED intensity	0-255
47	LED Color	Green LED Intensity	0-255
48	LED Color	Blue LED Intensity	0-255

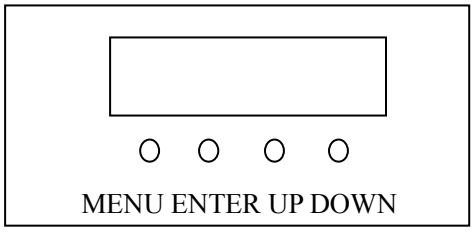
DMX Mode 4 (6 Channels)

DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255
4	Strobe	Strobe (slow to fast)	0-255
5	Macro	No Function	0-1
		Color fade (slow to fast)	2-19
		Color Snap (slow to fast)	20-39
		Random (slow to fast)	40-59
		Macro Effect 1	60-79
		Macro Effect 2	80-99
		Macro Effect 3	100-119
		Macro Effect 4	120-139
		Macro Effect 5	140-159
		Macro Effect 6	160-179
		Macro Effect 7	180-199
		Macro Effect 8	200-219
		Macro Effect 9	220-229
		Macro Effect 10	230-249
		Macro Effect 11	250-255
6	Dimmer	Dimmer Off to Full	0-255

Part Six: Board Operation







MENU：back to Menu ENTER：to confirm; DOWN：parameter decrease，UP：parameter increase

Part Seven: Menu Description

1. Instructions:

Addr: DMX mode;（A001-A512）

SoUA: auto-run mode;(SO.UA)

Pr--: build-in program;（PR00-PR25）

FADE：Gradient mode;（FA00-FA20，RGB ）

rL--: Red light-mode;（r.000-r.255）

gL--: Green light-mode;(g.000-g.255)

bL-- : Blue light-mode;(b.000-b.255)

- **SLAU: multi-machine interconnected control mode; (SL.AU)**

nodE: DMX channels; (3CH 24CH 48CH 6CH)

2.

MENU（UP/DOWN）+ENTER+UP/DOWN）+ENTER

Note: press the MENU key to activate the button functions, because when working in a mode LED, about 1 minute the display will automatically shut down after 1 minute.

For example: select DMX mode of operation as follows:

- **Press MENU key, back to menu items**
- **Press UP/DOWN key，display "Addr"**
- **Press ENTER key to enter the menu to change the content, the screen will have flickers at the same time**
- **Press UP/DOWN key to modify the DMX address code, show A001**
- **Press ENTER key to confirm，DMX mode will be saved，and the screen will stop flicking.**

For example: Select DMX channel selectable mode, the operation as follows:

- **Press MENU key, back to menu items**
- **Press UP/DOWN key，display "node"**
- **Press ENTER key to enter the menu to change the content, the screen will have flickers at the same time**

- **Press UP/DOWN to select the DMX channel，3CH、24CH、48CH or 6CH**
- **Press ENTER key to confirm，DMX mode will be saved，and the screen will stop flicking.**

3．Build-in program instruction：

PR00= off； PR01= red； PR02=green； PR03=blue； PR04=yellow； PR05=cyan；

PR06=purple； PR07=white；

PR08-PR24 for the built-in 17 kinds of program changes; PR25 for comprehensive PR08-PR24 program：

Note: PR00 to PR07 is fixed and can not modify its program changes the speed of strobe and the speed of the program; and PR08-PR24 can modify the program changes the speed of the program and the speed of strobe. Operation is as follows:

For example: When the current display for the PR08,

First press ENTER key, then the display shows SP00 and flashing, "SP", means the speed of change to modify its program, press UP / DOWN key to change SP00-SP99, SP99 means the slowest; SP00 means the fastest

The second press ENTER key, then the display shows FL00 and flashing, "FL" means changes the speed of strobe, press UP / DOWN key to change FL00-FL99, FL99 strobe the slowest; FL00 is not strobe, FL01 is fastest strobe

The third press ENTER key to return to the PRO8 state, parameters are automatically saved.

Part Eight: Operation Instructions

➢ Master and slave settings

Master settings：Except DMX mode Addr、SLAV、CHnd,，all other operating modes are as masters which will issue synchronization signals, disconnect (or off) DMX 512 console signals to prevent the master signals intervene that of the DMX, in case the signal line is over 60 meters (20 lights), it is required to increase the DMX signal amplifier.

Slave settings: must be set to slave receive mode to receive the master's signal. Master-slave communication can only set one as master, others are slaves.

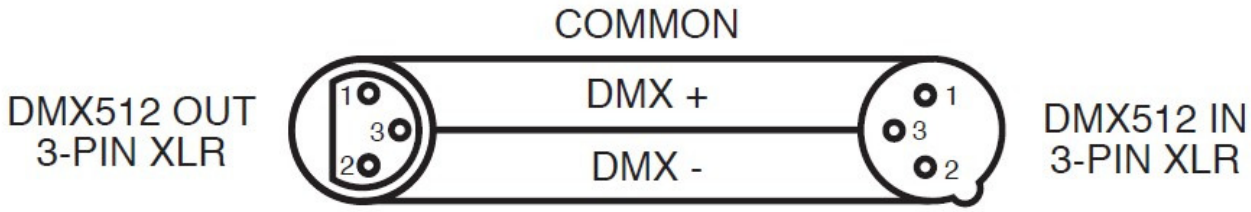
Part Nine: Signal Cable

- **Signal cable:**

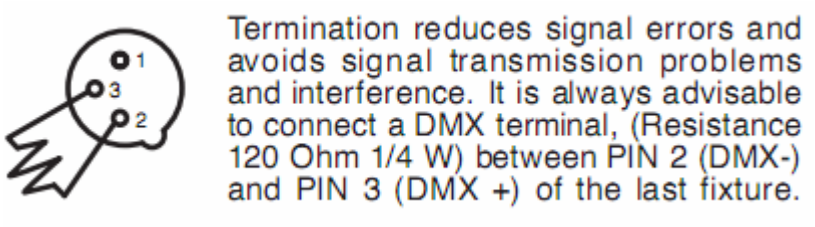
The standard way to connect: one end to male socket, the other to female socket, 1 is for ground, 2 is for

data compliment (negative), 3 is for data true (positive).

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)



Note: In order to avoid signal transmission failure and interference, a 120Ω (1/4W) resistance should be connected to the terminal access of signal line, as shown in the following:


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

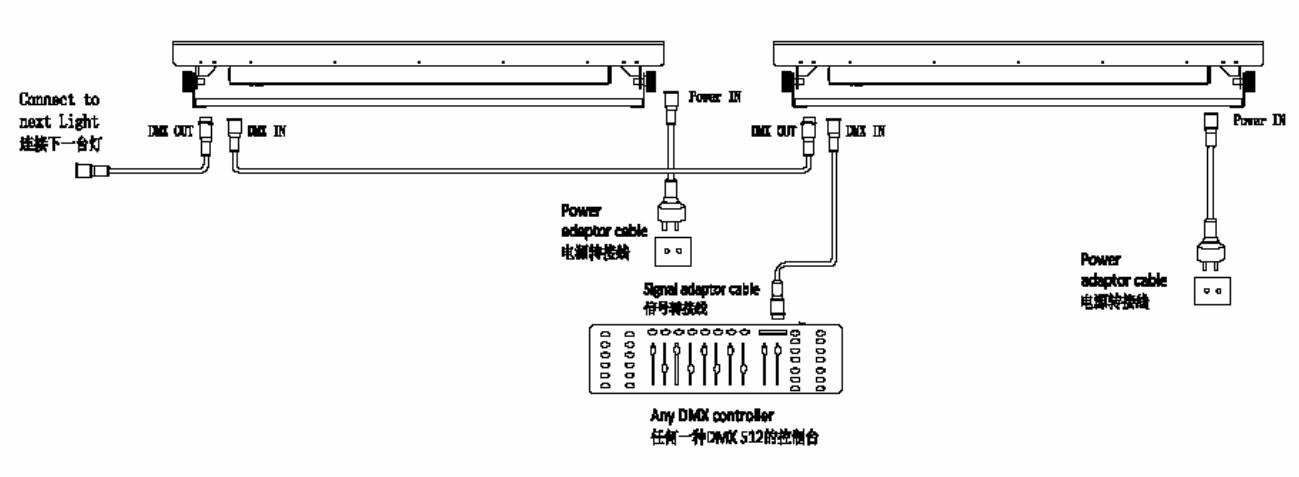
- Conversion between 3 pin signal cable and 5 pin signal cable

  If you use a 5 pin output DMX 512 console, please use a switch signal cable to turn 5 pin to 3 pin.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Part Ten: Wiring diagram

- Light wiring diagram:



Part Eleven: Failure Analysis

Failure phenomenon	Inspection method
Boot failure	◆ Check the power outlet is working properly ◆ Check the switch is on or not ◆ Check the fuse is normal or not
DMX control failure	◆ DMX signal cable is connected to the light or not ◆ DMX512 console works or not ◆ DMX signal cable is normal or not ◆ Light is set to DMX mode (A001) or not
Display does not shine	◆ When power on, LED will flash or not, if yes, power supply is normal; if not, check the switch power supply or transformer output ◆ Check input power to IC board is normal or not ◆ Check display cable connection is loose or not ◆ Change control board to see whether it is the problem ◆ Change display
LED does not shine	◆ When power on, LED will flash or not, if yes, power supply is normal; if not, check the switch power supply or transformer output ◆ Check input power to IC board is normal or not ◆ Check light board is loose or not ◆ Change control board to see whether it is the problem

Some pieces of LED does not shine	◆ LED lights are put in series then in parallel, check whether LED lights are loose or not ◆ Use a multimeter (diodes file) to detect whether LED is illuminated or not, if not, change it ◆ Check whether the current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with normal IC)
Single long/ not shine	◆ Check the corresponding switch is normal or not ◆ Change the IC board

Note: Maintenance must be carried out by professional user or professional maintenance staff!

Part Twelve: Technical parameters

●High-brightness LED digital display DMX address code, easy to operate

●Input voltage: AC 100-240V/50-60HZ

●Rated Power: 70W

●bulb specifications: full-color (3-in-1) LED (16PCS)

●life: about 5-10 million hours

●Dielectric strength: 1.5KV

●Insulation Resistance:> 2MΩ

●Control mode: DMX512 mode、Master and slave、sound、auto-run

●Number of channels: 3CH、24CH、48CH、6CH

●Beam angle: 45 degree

●Overall dimensions: 993*74*125mm

●Net weight: 6.5 KG